

# TEV300 Electric Vehicle Charger Test Kit

**Provides fundamental wiring testing for EV charging systems with LED GO/NO GO indication**

## Features:

- Indicates the status of the charger output socket (vehicle side)
- Proximity Pilot (PP) State (Cable Simulation) - Simulates 20 A current capability between PP and PE conductors
- Built-In Control Pilot (CP) State (Vehicle Simulation Switch - Different vehicle states can be simulated: Vehicle states are simulated with different resistances connected between CP and PE conductors (see chart 1)
- CP Error "E" simulation: Simulate the behavior of the station when there is an established short circuit between CP and PE
- Socket Inspection - LED Indication and Chart Provides simple socket inspection conditions (see chart 2)
- Complies with EMC Directive (2014/30/EU), EN61010-1 standard and the Low Voltage Directive (2014/35/ EU)
- Includes (1) IEC62196-2 Type 1 female to male adaptor/converter and pouch case



## Control Pilot (CP) State (Vehicle Simulation) 1

Vehicle State	State Description	CP/PE Resistance	Vehicle State
A	Electric vehicle not connected	open ( $\infty$ )	$\pm 12V @ 1KHz$
B	Electric vehicle connected, not ready to charge	2.74 K	+9V/-12V@1KHz
C	Electric vehicle connected, ready to charge, ventilation not required	882 $\Omega$	+6V/-12 @ 1KHz
E	CP Error	0 $\Omega$	0V

## Socket Inspection 2

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	OK
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	L/N swapped
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	L/PE swapped
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	PE missing
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	N missing
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	L missing
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	L/PE swapped & PE missing
<input type="radio"/> =LED OFF			
<input type="radio"/> =LED ON			

## Specifications

Input Voltage	230V/400V
Network Types	TN, TT
Measuring Terminals	L1, N, PE Max. 230 /400 V 50 / 60 Hz
Fixed Conductor	Type-2-connector, fixed to device
Included Adaptor	IEC62196-2 Type 1 male (Male to Female Adaptor Included/Tesla)
Socket/Test Lead Colors	L1, N, PE in 3-wire-cable
CP and PP State Simulation	Yes
Measurement Category	CAT II 300 V
IP Rating	IP40
Test Cable Length	9.8" (25 cm)
Power	Powered by Charging System
Dimensions	24" x 2.8" x 2.4" (600 x 70 x 60 mm)
Weight	12.8oz (365g)



Type 1 Connection

Tesla Connection

## Ordering Information:

TEV300 Electric Vehicle Charger Test Kit



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